

54655 DREV

## Work Order ID 54168

December 2, 2009 8:00:54 AM

Page 1

Item ID: D135-751-011

Accept



Setup Start



Revision ID: C

Stop



Item Name: Skidtube Installation

Start Date: 02/12/2009 Start Qty: 1.00



Cust Item ID:

Required Date: 16/12/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals:

Process Plan: *BT*Date: *09-12-2*

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

Draw Nbr

Revision Nbr

D3507

Rev C

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile &amp; type labels per PPP D135-751-011

CHG001

*S or h2k4*

110

0.00



Skidtubes

Skidtubes

Memo

0.00

Skidtubes

1-Determine square end of tube and deburr

2-Drill #30 pilot holes using DT8678. Open holes to 0.3125".

3- Deburr holes.

*> DP 9-12-2**B 54168*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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**NOTE:** Date & initial all entries

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Stop



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	BENDING MACHINE - SKIDTUBES	0.00							
									
CNC Bend 1	Memo	0.00							
CNC Delta 100 Bender	1- Bend tube as per program on CNC Bender and Dwg D3507. Use 5/16" locator pin on buggy "A". 2- Cut FWD END of tube as per dwg D3507								

  
9-12-2

W/O:		WORK ORDER CHANGES					
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Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

130



Skidtubes

Skidtubes

0.00

0.00

Memo

1-Cut Aft end as per dwg D3507

2-Deburr ends

3-Drill Aft &amp; Fwd Cap holes using DT8678 &amp; DT8901

4-Locate DT8870 &amp; Drill Ground wire hole on top of Tube.

6-Locate DT8870 with #30 cleco in Ground wire hole ,then Pilot Drill all X-Bolt holes using #30" drill. \*\*\*\*DO NOT OPEN AFT CAP HOLES\*\*\*\*

7-Open crossbolt holes to 0.125" (3 per side). Drill pilot holes for wearplates using Dt8868, Use DT8892 FOR REAR WEARPLATE HOLES.

8-Open six rear wearplate holes using DT8892. Open holes to 0.297"

9- Drill holes section G-G (DT9431)

10-Open Aft &amp; Fwd Cap holes using .208" drill.

11-Bore out aft end of tube as per Dwg D3507 &amp; Detail "B".

12-Open ground wire hole .297" section E-E

13- Section G-G holes must be laid out manually, open to #30.

14-Deburr holes.

DP 9-12-3

DP 9-12-4

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QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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140

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

27 S. 02/12/07

(H)

150

Chemical Conversion Coat per QSI005 4.1

0.00



HandFinish

Memo

0.00

Hand Finishing

1 11/9/12/17

160

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

DP

9-12-7

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Customer:

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Run Start



Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

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170

0.00



Skidtubes

Skidtubes

Memo

0.00

1-Open X-Bolt holes to .375"(2Places) & .500"(2Places) as per Dwg D3507 and Detail "F"

2-Counter Sink X-BOLT holes as per Dwg D3507

3-Deburr and blow out chips from inside of tube.

4-Bond web as per Dwg D3507 & QSI 015

A/R 241 Sike Flex Batch: 1112995

Exp Date: 02/12/10

5-Weld x-bolt (D3504-1/3)spacers as per Dwg D3507 and Detail C-C & D-D.

A/R AL ROD Batch: 1112860

6-Grind welds flush

7-Drill Rivet Holes as per Dwg D3507 Using Dt8871A&B

8-Deburr Rivet holes.

11/9/12/17

BE 09/12/08

BE 09/12/09

W/O:		WORK ORDER CHANGES					
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Cust Item ID:

Required Date: 16/12/2009 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Stop



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
180  QC Quality Control	QC10- Inspect visual per QSI004- ground welds  Memo	0.00 0.00							
190  Skidtubes Skidtubes	Skidtubes  Memo 1-Rivet D3506-1/-3 as per Dwg D3507.	0.00 0.00							BE 09/12/09
200  QC Quality Control	QC5- Inspect part completeness to step on W/O  Memo	0.00 0.00							

# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Setup Start



Stop



Start Date: 02/12/2009 Start Qty: 1.00  
Required Date: 16/12/2009 Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
210  HandFinish Hand Finishing	Pressure Wash per QSI005 4.3  Memo	0.00 0.00	<i>BL 09-12-9</i>			<i>①</i>			
220  Powdercoat Powder Coating	White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum <i>M 112148</i> Memo START TIME: <i>8:20</i> OVEN TEMPERATURE: <i>320</i> FINISH TIME: <i>8:50</i>	0.00 0.00	<i>BL 09-12-10</i>			<i>②</i>			
230  QC Quality Control	QC3- Inspect Part Finish  Memo	0.00 0.00	<i>all 09/12/10</i>			<i>(X1) 9</i>			

W/O:		WORK ORDER CHANGES					
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Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Customer:

Reference:

Run Start



Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Stop



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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240

0.00



HandFinishing

HandFinish

Memo

0.00

=&gt; M 02/12/10

(X1)

Ø

Hand Finishing

Install Wearplate &amp; Ground Wire inserts as per Dwg D3507.

250

0.00



QC5- Inspect part completeness to step on W/O

QC

Memo

0.00

2) 8/12/10

(11)

Quality Control

Inspect Inserts

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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# Work Order ID 54168



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December 2, 2009 8:00:54 AM

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Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

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QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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260

0.00



HandFinishing

HandFinish

Memo

0.00

Hand Finishing

1-Inspect for Foreign objects

2-Install Fwd & Aft caps as per Dwg D3507 And Detail "A" & "B"

A/R 241 Sika Flex Batch: M112345  
Exp Date: 10/08

3-Install Wearplates as per Dwg D3507,

Note: Install (1) Bolt and (1) washer on Ground Wire insert on top of tube  
Do not Install Screws where indicated on Dwg (Note #6)

A/R 241 Sika Flex Batch: M112345  
Exp Date: 10/08

4-Install Plug assemblies as per Dwg D3507. Batch M101223

And Apply Lubricate

5- Wing Walk as per Dwg D3507 and QSI 005 4.4

Batch: M112263

=> M109/12/10

(X1)

6

270

0.00



QC

QC5- Inspect part completeness to step on W/O

Memo

0.00

Quality Control

=> 801/12/11

(41)

6

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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Work Center IDOperation  
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Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

280

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

9/12/11 sf

290

QC4- 100% Inspect kits for completeness

0.00



QC

Memo

0.00

Quality Control

275 01/2/14

XC

300

Packaging

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D135-751-011

Location:

PPP Rev: B

12/12/11

W/O:		WORK ORDER CHANGES					
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Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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310

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

\_\_\_\_\_ 09.12.16 \_\_\_\_\_

pl 0912-15  
①

W/O:		WORK ORDER CHANGES					
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# Picklist Print

Page 1

December 2, 2009 8:01:00 AM

Work Order ID: 54168

Parent Item: D135-751-011RevC

Parent Item Name: Skidtube Installation

Comments:

Start Date: 02/12/2009

Required Date: 16/12/2009

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
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D2962-150RevA

Manufactured

No

110

Each

40.0000

1.0000



3.540 Outer Tube, Extrud

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

40

27774

1

28672

39

D3504-1RevC

Manufactured

No

170

Each

11.0000

2.0000



Crossbolt Spacer

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

11

31234

11

D3504-3RevC

Manufactured

No

170

Each

14.0000

1.0000



Crossbolt Spacer

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

14

31232

14

DP 9-12-2

1

2 BE 09/12/08

1 BE 09/12/08

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
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D3504-5RevC

Manufactured

No

170

Each

6.0000

2.0000



Crossbolt Spacer

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

6

36181

6

170

Each

2.0000

1.0000

D3505-1RevA

Manufactured

No



Web

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FG

2

52171

2

190

Each

89.0000

4.0000

D3506-1RevA

Manufactured

No



Doubler

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

FG

3

46538

3

Main Warehouse

ST

86

51789

86

*[Handwritten signature]*

4

8E 09/12/09

December 2, 2009 8:01:00 AM

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Page 2

# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Page 3

December 2, 2009 8:01:00 AM

Work Order ID: 54168

Parent Item: D135-751-011RevC

Parent Item Name: Skidtube Installation



Comments:

Start Date: 02/12/2009

Required Date: 16/12/2009

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3506-3RevA		Manufactured	No			190	Each	106.0000	2.0000			
												
Doubler												

Warehouse Loc Qty Loc Code

Location

Main Warehouse

FG 98

51790 98

Main Warehouse

LG 8

50563 8

MS20601-AD4W3 Purchased No



Rivet

190 Each 234.0000 12.0000



Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST 234

107823 3

111359 231

*2 BE 02/12/09*

*12 BE 02/12/09*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

December 2, 2009 8:01:00 AM

Work Order ID: 54168



Parent Item: D135-751-011RevC



Parent Item Name: Skidtube Installation

Start Date: 02/12/2009

Required Date: 16/12/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

ALS7-1032-130 Purchased No 240 Each 2,748.000 38.0000



Insert

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	2748	
105855	16	
108606	52	
111529	1356	
111779	313	
112772	11	
113238	1000	

X38 H 09/12/10

ALS4-1032-225 Purchased No

No

260 Each 7,318.000 1.0000



Insert

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	7318	
107441	16	
110768	7302	

X1 H 09/12/10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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December 2, 2009 8:01:00 AM

Work Order ID: 54168



Parent Item: D135-751-011RevC



Parent Item Name: Skidtube Installation

Start Date: 02/12/2009

Required Date: 16/12/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3C4A 		Purchased	No			260	Each	1,327.000	31.0000			
BOLT												

Warehouse	Loc Qty	Loc Code
<u>Location</u>		
Main Warehouse		
ST	1327	
112314	13	
112720	12	
112724	3	
112829	44	
112991	39	
113121	216	
113226	1000	

M 113359

X31 M 09/12/10

AN3C5A



Purchased

No

260

Each

1,011.000 2.0000



Bolt

Warehouse	Loc Qty	Loc Code
<u>Location</u>		
Main Warehouse		
ST	1011	
111424	8	
111707	69	
112314	1	
112641	333	
113121	300	
113149	300	

X2 M 09/12/10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# Picklist Print

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December 2, 2009 8:01:00 AM

Work Order ID: 54168

Parent Item: D135-751-011RevC

Parent Item Name: Skidtube Installation

Start Date: 02/12/2009

Required Date: 16/12/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN526C1032R10		Purchased	No			260	Each	530.0000	2.0000			
Screw												

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

530

108062

127

108167

35

110049

368

X2 24 09/12/10

AN960C10L

Purchased

No

260

Each

1,820.000 33.0000

washer

Warehouse Loc Qty Loc Code

Location

OFFSHORE

FG

100

103585

100

Main Warehouse

ST

1720

112116

512

112612

342

112933

866

X33 24 09/12/10

**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Page 7

December 2, 2009 8:01:00 AM

Work Order ID: 54168

Parent Item: D135-751-011RevC

Parent Item Name: Skidtube Installation

Start Date: 02/12/2009

Required Date: 16/12/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D2965-3RevB		Manufactured	No			260	Each	13.0000	1.0000			

Cap

Warehouse  
Location

Loc Qty

Loc Code

Main Warehouse

ST

13

50560

5

52282

8

D2965RevB

Manufactured

No

260

Each

3.0000

1.0000

Cap, 105 Skidtube

Warehouse  
Location

Loc Qty

Loc Code

Main Warehouse

FP4

2

60924

2

Main Warehouse

ST

1

43288

1

xl 02/12/10

xl 02/12/10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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December 2, 2009 8:01:00 AM

Work Order ID: 54168

Parent Item: D135-751-011RevC

Parent Item Name: Skidtube Installation

Start Date: 02/12/2009

Required Date: 16/12/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D3492-041RevC Manufactured No



Plug Assembly

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

140

51584

140

D3492-043RevC Manufactured No



Plug Assembly

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

84

52309

84

D3492-047RevC Manufactured No



Plug Assembly

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

48

27776

1

28961

31

39722

16

84 84 09/12/10

82 84 09/12/10

82 84 09/12/10

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Page 8

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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December 2, 2009 8:01:00 AM

Work Order ID: 54168

Parent Item: D135-751-011RevC

Parent Item Name: Skidtube Installation

Comments:


Start Date: 02/12/2009

Required Date: 16/12/2009


Start Qty: 1.00

Required Qty: 1.00


Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D3508-1RevC		Manufactured	No			260	Each	9.0000	1.0000			
												
Wearplate												

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
FP	9	

D3508-3RevC		Manufactured	No			260	Each	9.0000	1.0000			
												
Wearplate												

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
FP21	9	

D3508-5RevC		Manufactured	No			260	Each	8.0000	1.0000			
												
Wearplate												

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
FP21	8	

51388

X1 44 09/12/10

X1 44 09/12/10

X1 44 09/12/10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# Picklist Print

December 2, 2009 8:01:01 AM

Work Order ID: 54168

Parent Item: D135-751-011RevC

Parent Item Name: Skidtube Installation

Comments:

Start Date: 02/12/2009

Required Date: 16/12/2009

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3508-7RevC		Manufactured	No			260	Each	9.0000	1.0000			



Wearplate

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
FP21	8	
(51389)	8	
Main Warehouse		
ST	1	
44518	1	

XLM 09/12/28

D3558-1RevB

Manufactured No

260 Each 19.0000 1.0000



Gasket

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	19	
(50925)	19	

XLM 09/12/10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Page 11

December 2, 2009 8:01:01 AM

Work Order ID: 54168

Parent Item: D135-751-011RevC

Parent Item Name: Skidtube Installation

Start Date: 02/12/2009

Required Date: 16/12/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bia Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D3558-3RevB

Manufactured

No

260

Each

14.0000

1.0000



Gasket

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

14

45661

2

51391

12

X 1 09/12/10

D3558-5RevB

Manufactured

No

260

Each

10.0000

1.0000



Gasket

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

10

50926

10

X 1 09/12/10

D3558-7RevB

Manufactured

No

260

Each

17.0000

1.0000



Gasket

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

17

36388

2

43245

5

50927

10

X 1 09/12/10

December 2, 2009 8:01:01 AM

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Page 11

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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December 2, 2009 8:01:01 AM

Work Order ID: 54168

Parent Item: D135-751-011RevC

Parent Item Name: Skidtube Installation



Start Date: 02/12/2009

Required Date: 16/12/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
NAS1611-007 		Purchased	No			260	Each	442.0000	2.0000			
O-RING												

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

442

(103697)

442

NAS1611-010

Purchased

No

260

Each

338.0000

4.0000



O-RING

x2 del 09/12/10

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

338

110715

44

(10915)

294

NAS1611-013

Purchased

No

260

Each

138.0000

4.0000



O-RING

x4 del 09/12/10

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

138

106513

11

111424

20

(111758)

107

x4 del 09/12/10

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Shop Packet Print

Page 12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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December 2, 2009 8:01:01 AM

Work Order ID: 54168

Parent Item: D135-751-011RevC

Parent Item Name: Skidtube Installation

Comments:

Start Date: 02/12/2009

Required Date: 16/12/2009

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3C4A BOLT		Purchased	No			280	Each	1,327.000	8.0000		9/12/11	sf

Warehouse Location	Loc Qty	Loc Code
Main Warehouse		
ST	1327	
112314	13	
112720	12	
112724	3	
112829	44	
112991	39	
113121	216	
113226	1000	

AN960C10L

washer

Purchased

No

280

Each

1,820.000 8.0000

Warehouse Location	Loc Qty	Loc Code
OFFSHORE		
FG	100	
103585	100	
Main Warehouse		
ST	1720	
112116	512	
112612	342	
112933	866	

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# Picklist Print

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December 2, 2009 8:01:01 AM

Work Order ID: 54168

Parent Item: D135-751-011RevC

Parent Item Name: Skidtube Installation

Start Date: 02/12/2009

Required Date: 16/12/2009

Comments:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3512-1RevC/ Wearplate		Manufactured	No			280	Each	7.0000	2.0000		9/12/11	

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST500

7

51390

7

2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

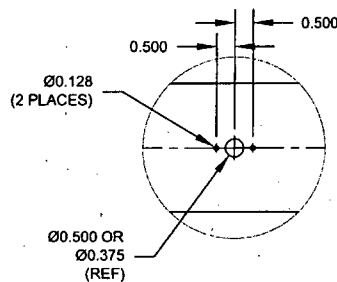
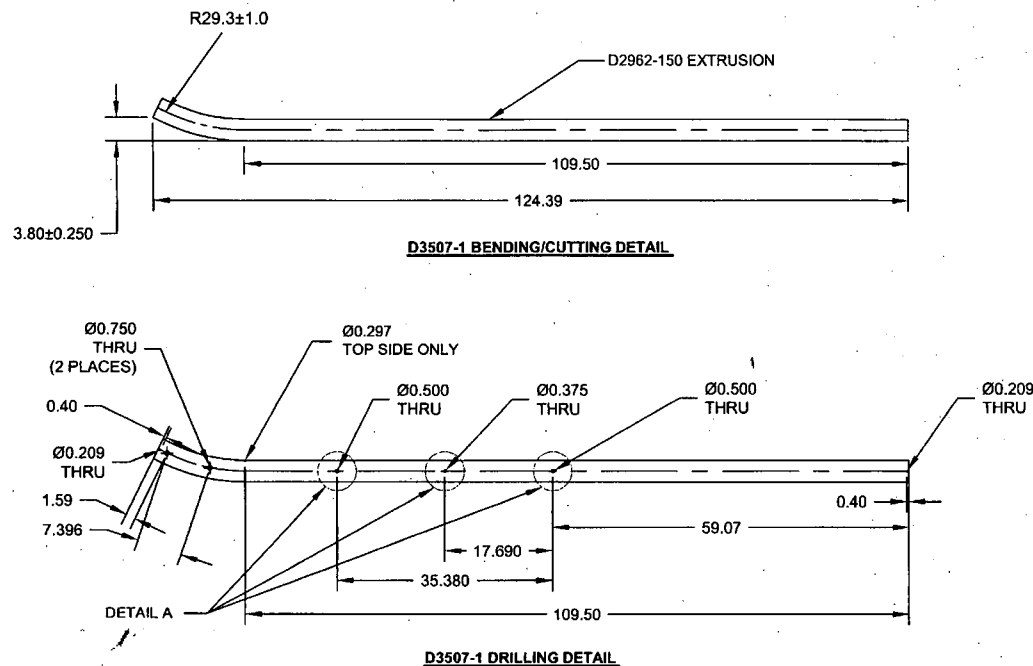
Qty	Part Number	Description
X	D3507-041	SKIDTUBE ASSEMBLY
1	D2962-150	EXTRUSION
1	D2965	CAP
1	D2965-3	CAP
4	D3492-041	PLUG ASSEMBLY
4	D3492-043	PLUG ASSEMBLY
2	D3492-047	PLUG ASSEMBLY
2	D3504-1	CROSS BOLT SPACER
1	D3504-3	CROSS BOLT SPACER
2	D3504-5	CROSS BOLT SPACER
1	D3505-1	WEB
4	D3506-1	DOUBLER
2	D3506-3	DOUBLER
1	D3508-1	WEARPLATE
1	D3508-3	WEARPLATE
1	D3508-5	WEARPLATE
1	D3508-7	WEARPLATE
1	D3558-1	GASKET
1	D3558-3	GASKET
1	D3558-5	GASKET
1	D3558-7	GASKET
38	AELS-1032-130	INSERT
1	AELS-1032-225	INSERT
31	AN3C4A	BOLT
2	AN3C5A	BOLT
2	AN526C1032-10	SCREW
33	AN960C10L	WASHER
12	MS20601AD4W3	RIVET

#### GENERAL NOTES:

- FINISH:  
CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIOR TO INSERTING D3505-1 WEB. POWDER COAT ASSEMBLY GLOSS WHITE (REF 4.3.5.1) PER DART QSI 005 4.3. ANTI-SKID PAINT AS INDICATED TO 1.00 ABOVE CENTER LINE PER DART QSI 005 4.4
- TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- DIMENSIONS: INCHES UNLESS OTHERWISE NOTED
- WELDING TO BE DONE PER DART QSI 004
- INSERT D3505-1 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/-291 ADHESIVE PER DART QSI 015 AFTER BENDING
- USE DART DRILL TEMPLATE DT8868 TO LOCATE AND DRILL Ø0.297 HOLES (38 PLACES) FOR WEARSHOE INSERTS. INSTALL AELS-1032-130 PER SECTION C-C (38 PLACES) AFTER FINISH. SEAL WEARPLATE BOLTS WITH SIKAFLEX-241/-291.
- DO NOT INSTALL AN3C4A BOLTS AND AN960C10L WASHERS IN INDICATED LOCATIONS

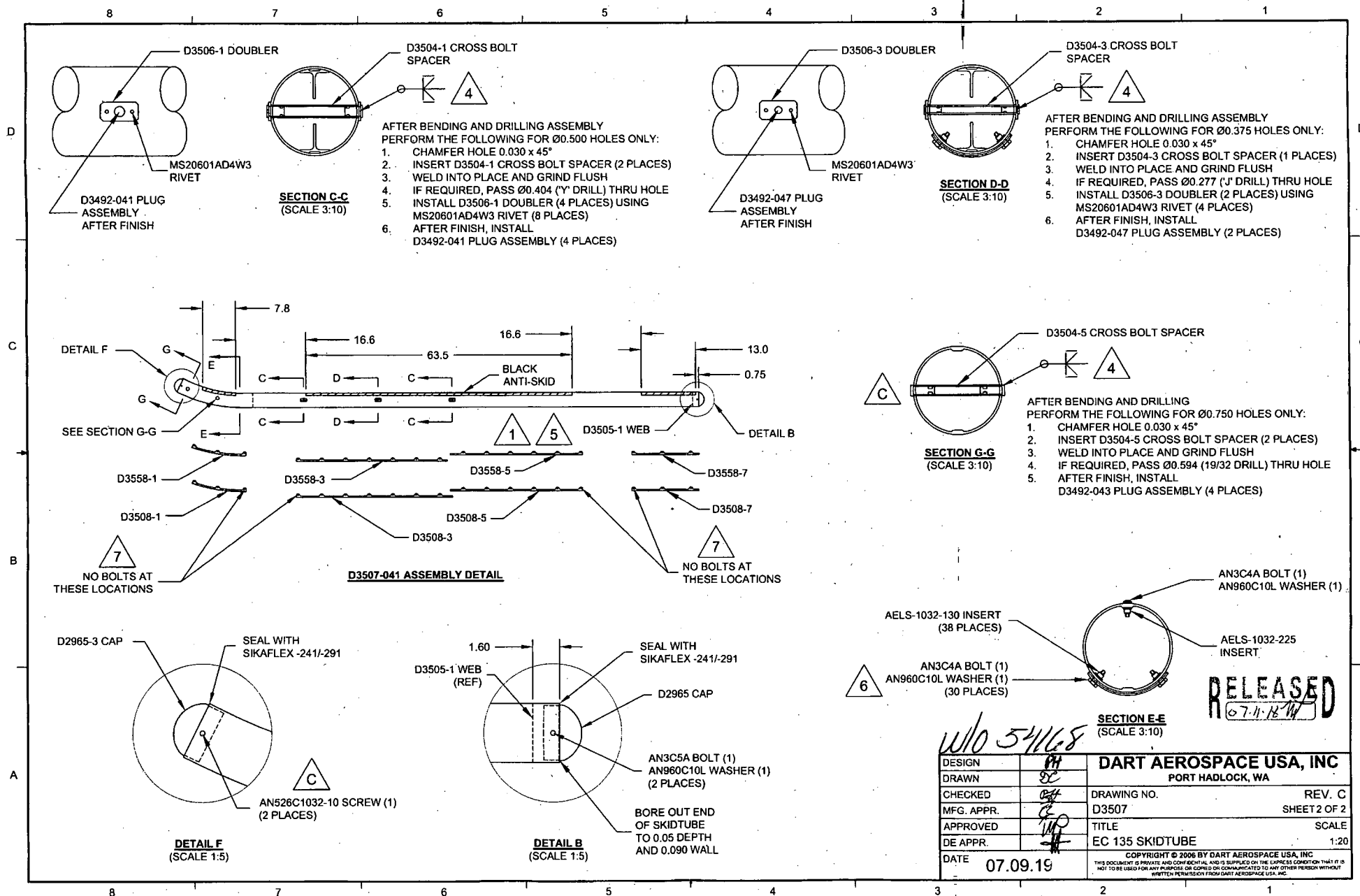
C	ADD D3504-5, FOR SKID GEAR DEFLECTOR; CHANGE FWD CAP BOLT TO AN526C1032-10 SCREW	DC	07.09.19
B	ADD GASKET, CHANGE HARDWARE MAT'L	PH	06.11.01
A	NEW ISSUE	PH	06.04.21
REV.	DESCRIPTION	BY	DATE
DESIGN	PH		
DRAWN	JFC		
CHECKED	PH		
MFG. APPR.	ED		
APPROVED	PH		
DE APPR.	PH		
DATE	07.09.19		

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WORK ORDER  
NO. 541168

12109-12-2



NO. 204

**AWS D17.1.2001  
QUALIFICATION TEST RECORD**

Name: Barclay Elliott  
Job number: 505370  
Part number: D135 751 011  
Description: Skid tube  
Welding Process: Tig[☒] Mig[ ]  
Base material: Aluminum  
Current: AC[☒] DC[ ]

**TEST REQUIREMENTS AND RESULTS**

Visual:

pass[☒] fail[ ]

Penetration:

pass[☒] fail[ ]

**UNACCEPTABLE**

Cracks:

pass[☒] fail[ ]

Undercut:

pass[☒] fail[ ]

Pin holes:

pass[☒] fail[ ]

Overlap (cold lap)

pass[☒] fail[ ]

Porosity (surface):

pass[☒] fail[ ]

Coloration:

pass[☒] fail[ ]

Qualifier J. D. D.

Date of Test Coupon 09-07-16

Welder Barclay Elliott

Date of Test Coupon 09/07/16

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

## 5.0 PARTS LIST

S

Item	Qty -011	Qty -041	Qty -043	Qty -101	Part Number	Description
	X				D135-751-011	SKIDTUBE INSTALLATION
	1	X			D135-751-041	REPLACEMENT SKIDTUBE
			X		D135-751-043	WEARPLATE KIT
				X	D135-751-101	SKIDTUBE EXTENSION KIT
1		1			D3507-041	SKIDTUBE ASSEMBLY
2	4				**BRS8-96/48SZ-M8-W2	CLAMP
3	8				**LN9038-08032	SCREW
4		1			*D2965	CAP
5		1			*D2965-3	CAP
6		2			***AELS-1032-130	INSERT
7		2			***AELS-1032-225	INSERT
8		2			*AN3C5A	BOLT
9		2			*AN960C10L	WASHER
10		2			*AN526C1032-10	SCREW
20A		1	1		*D3508-1	WEARPLATE
20B		1	1		*D3558-1	GASKET
21A		1	1		*D3508-3	WEARPLATE
21B		1	1		*D3558-3	GASKET
22A		1	1		*D3508-5	WEARPLATE
22B		1	1		*D3558-5	GASKET
23A		1	1		*D3508-7	WEARPLATE
23B		1	1		*D3558-7	GASKET
24		38			*AELS-1032-130	INSERT
25	8	30	38		*AN3C4A	BOLT
26	8	30	38		*AN960C10L	WASHER
27	2		2		D3512-1	WEARPLATE
30		1			*AELS-1032-225	INSERT
31		1			*AN3C4A	BOLT
32		1			*AN960C10L	WASHER
40		4			*D3492-041	PLUG ASSEMBLY
41		4			***NAS1611-010	O-RING
42		2			*D3492-047	PLUG ASSEMBLY
43		2			***NAS1611-007	O-RING
44		4			*D3506-1	DOUBLER
45		8			*MS20601AD4W3	RIVET
46		2			*D3506-3	DOUBLER
47		4			*MS20601AD4W3	RIVET
48		4			*D3492-043	PLUG ASSEMBLY
49		4			***NAS1611-013	O-RING
50				1	D3510-041	INSERT ASSEMBLY
51				2	*AELS-1032-130	INSERT
52				6	***AELS-1032-225	INSERT
53				2	***ALS4-428-165	INSERT
54				2	AN4C7A	BOLT
55				2	AN960C416L	WASHER
56				2	AN3C4A	BOLT
57				8	AN3C7A	BOLT
58				10	AN960C10L	WASHER

\* PART IS INCLUDED WITH D3507-041 SKIDTUBE ASSEMBLY

\*\* TO BE SUPPLIED BY CUSTOMER, LISTED AS REFERENCE ONLY

\*\*\* DENOTES PART IS INCLUDED WITH ASSEMBLY ABOVE

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Revision: C

Date: 07.09.20

# Work Order ID 54168

December 2, 2009 8:00:54 AM

Page 1

Item ID: D135-751-011

Accept

Revision ID: C

Item Name: Skidtube Installation

Setup Start

Stop

Start Date: 02/12/2009 Start Qty: 1.00

Required Date: 16/12/2009 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: *PS*

Date: *09-12-2*

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Draw  
Number

Draw  
Rev.

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

D3507

Rev C

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPP D135-751-011 CHG001

*PL 09-12-14*

110

0.00



Skidtubes

Skidtubes

Memo

0.00

Skidtubes

1-Determine square end of tube and deburr

2-Drill #30 pilot holes using DT8678. Open holes to 0.3125".

3- Deburr holes.

*DP 9-12-2*

Material Requisitions

R/S#: \_\_\_\_\_

Part Number: AN3C6A

Batch Number: M111982

Quantity: 4

Required by: JA Date: 10 08 08

Used for \_\_\_\_\_

Part Number: ENG 1/00 June

Batch Number: \_\_\_\_\_

Approved by Purchaser: \_\_\_\_\_

Date: \_\_\_\_\_

Comments: \_\_\_\_\_

TRANS CA MATERIAL REQ-A.DOC

added to

51778 & 54168

D135-751-04



Each KIT

Requires

AN 3C 4A X 2

AN 3C 7A X 4 + 2

AN 4C 7A X 2

M114341  
NAS 1149 C0332R X 6

AN 960C 416L X 2

M114382 X 2

DBS 751 011 B51778

DBS 751 101 B59468

DBS 751 011 B54168

DBS 751 101 B59468

# Work Order Summary

June 9, 2010 9:48:52 AM

Page 1 of 1

Criteria : Work Order ID: eng1100june All Items All Product Families  
 Work Order Start Dates 5/31/10 to 5/31/10 11:59:59 PM Work Order Required Dates 6/30/10 to 6/30/10  
 11:59:59 PM  
 All References  
 Work Order Status Released

Work Order ID eng1100june Required Qty 1.0000 Status Code Released  
 Item ID Accepted Qty 0.0000 Scrap Qty 0.0000  
 Item Name  
 Current Acct Value \$0.000 Sales Order ID  
 Start Date 5/31/10 Required Date 6/30/10 Completed Date  
 10:30:00 AM

Expense	** Actual **		** Acct. Value **	** Variance **	** Variance % **
Direct Costs	Total	Each	Each	Each	Each
Material	\$0.000	\$0.000	\$0.000	\$0.000	0.00%
Labor	\$438.493	\$0.000	\$0.000	\$0.000	0.00%
Outplant	\$0.000	\$0.000	\$0.000	\$0.000	0.00%
Variable Burden	\$0.000	\$0.000	\$0.000	\$0.000	0.00%
Fixed Burden	\$0.000	\$0.000	\$0.000	\$0.000	0.00%
Material Burden	\$0.000	\$0.000	\$0.000	\$0.000	0.00%
<b>** Total **</b>	\$438.493	\$0.000	\$0.000	\$0.000	

## Work Center Eng

Employee ID	Rout Seq ID	Labor Date	Setup Hours	Actual Setup Hours	Labor Hours	Actual Labor Hours	Nbr of WOs	Setup Amount	Labor Amount	Total Amounts
armi01 <i>1 hr 40 min's</i>										
	6/07/10									
100			0.00	0.00	1.70	1.70	1.00	\$0.000	\$56.703	\$56.70
	6/08/10									
100			0.00	0.00	4.04	4.04	1.00	\$0.000	\$134.418	\$134.41
100			0.00	0.00	1.31	1.31	1.00	\$0.000	\$43.637	\$43.63
BELL01										
	6/01/10									
100			0.00	0.00	2.00	2.00	1.00	\$0.000	\$66.580	\$66.58
	6/02/10									
100			0.00	0.00	3.12	3.12	1.00	\$0.000	\$103.865	\$103.86
SHEP01										
	6/02/10									
100			0.00	0.00	1.00	1.00	1.00	\$0.000	\$33.290	\$33.29
<b>Total:</b>			0.00	0.00	13.17	13.17	6.00	\$0.000	\$438.493	\$438.49

## L Lacelle

---

**From:** Bill Beckett [bbeckett@dartaero.com]  
**Sent:** June 9, 2010 8:37 AM  
**To:** 'L Lacelle'  
**Subject:** RE: NEW PO 6883 FOR HAWKER PACIFIC PTY LTD - RF

Linda,  
What were the approx costs associated with installing the extensions? What would the approx costs be to return the extensions and the skidtubes back to their original state?  
Bill

---

**From:** L Lacelle [mailto:llacelle@dartaero.com]  
**Sent:** June 9, 2010 8:18 AM  
**To:** 'Bill Beckett'  
**Subject:** FW: NEW PO 6883 FOR HAWKER PACIFIC PTY LTD - RF

fyi

---

**From:** Robbin Fraser [mailto:robbin@darths.com]  
**Sent:** June 9, 2010 7:59 AM  
**To:** Nancy MacLeod; sbedford@dartaero.com; llacelle@dartaero.com; mfauteux@dartaero.com  
**Cc:** Linda Pilon  
**Subject:** RE: NEW PO 6883 FOR HAWKER PACIFIC PTY LTD - RF

Hi Everyone,

Please hold this order until further notice. Hawker prematurely issued the PO and needs to confirm with the end user their requirement for it.

I hope to have an update in a day or two for you.  
Sorry about that, Hawker sends their apologies too.

Regards,

Ms. Robbin Fraser

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Tel: 1.613.632.3336  
Toll Free (N. America): 1.800.556.4166  
Fax: 613.632.4443  
www.darthelicopterservices.com

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**From:** Nancy MacLeod  
**Sent:** June 8, 2010 9:37 AM  
**To:** 'sbedford@dartaero.com'; 'llacelle@dartaero.com'; 'mfauteux@dartaero.com'  
**Cc:** Shirley Hay; Linda Pilon; Robbin Fraser  
**Subject:** NEW PO 6883 FOR HAWKER PACIFIC PTY LTD - RF

Please see the attached PO for Hawker Pacific Pty Ltd. \_

6/09/10